

























Bounded Buffer Problem — Solution	
Shared variables:	
<pre>buffer B(N); // empt semaphore mutex(1); semaphore empty(N); semaphore full(0);</pre>	y, capacity N
Pseudocode for producer:	Pseudocode for consumer:
while (true) {	while (true) {
<pre>item = generate();</pre>	down(full);
down(empty);	down(mutex);
down(mutex);	<pre>item = get(B);</pre>
<pre>put(item, B);</pre>	up(mutex);
up(mutex);	up(empty);
up(full);	use(item);
}	}

